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☐ 1. 2/5/1 (Item 1 from file: 123)

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Status Changes:

REISSUE REQUESTED

Assignee:
Moltech Invent S A LU

Patent Number	Issue Date
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Patent:
US 6093304

20000725

Reissue Requested:

Request Number	Request Date	Recorded in OG	Exam. Group	Reissue Patent No.
09/917247	20010727	20020514	1741	

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☐ 2.

2/5/2 (Item 1 from file: 345)

12924432

Basic Patent (No,Kind,Date): CA 2199288 AA 19960314

PATENT FAMILY:
AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9531901 A1 19960327

ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS
(English)

Patent Assignee: MOLTECH INVENT SA

Author (Inventor): NORA VITTORIO DE
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A
19940908
Applic (No,Kind,Date): AU 9531901 A 19950830
IPC: * C25C-003/08
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): AU 9865932 A1 19980730
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CATHODE BOTTOM (English)
Patent Assignee: MOLTECH INVENT SA
Author (Inventor): NORA VITTORIO DE
Priority (No,Kind,Date): US 302178 A 19940908
Applic (No,Kind,Date): AU 9865932 A 19980514
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): AU 688098 B2 19980305
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS-
(English)
Patent Assignee: MOLTECH INVENT SA
Author (Inventor): NORA VITTORIO DE
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A
19940908
Applic (No,Kind,Date): AU 9531901 A 19950830
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): AU 708455 B2 19990805
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CATHODE BOTTOM (English)
Patent Assignee: MOLTECH INVENT SA
Author (Inventor): NORA VITTORIO DE
Priority (No,Kind,Date): AU 9865932 A 19980514; AU 9531901 A3
19950830; US 302178 A 19940908
Applic (No,Kind,Date): AU 9865932 A 19980514
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English

CANADA (CA)

Patent (No,Kind,Date): CA 2199288 AA 19960314
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS
(English; French)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): US 302178 A 19940908
Applic (No,Kind,Date): CA 2199288 A 19950830
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English

GERMANY (DE)

Patent (No,Kind,Date): DE 69509540 C0 19990610
ALUMINIUM-ELEKTROGEWINNUNGSZELLE MIT VERBESSERTEN
KOHLENSTOFF-KATHODEBLOECKEN (German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A
19940908
Applic (No,Kind,Date): DE 69509540 A 19950830
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: German

Patent (No,Kind,Date): DE 69526264 C0 20020508
ALUMINIUM ELEKTROLYSEZELLE MIT DRAINIERFAEHIGE KATHODE (German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): US 302178 A 19940908
Applic (No,Kind,Date): DE 69526264 A 19950830
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: German
Patent (No,Kind,Date): DE 69509540 T2 19990930
ALUMINIUM-ELEKTROGEWINNUNGSZELLE MIT VERBESSERTEN
KOHLENSTOFF-KATHODEBLOECKEN (German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A
19940908
Applic (No,Kind,Date): DE 69509540 A 19950830
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: German
Patent (No,Kind,Date): DE 69526264 T2 20021024
ALUMINIUM ELEKTROLYSEZELLE MIT DRAINIERFAEHIGE KATHODE (German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): US 302178 A 19940908
Applic (No,Kind,Date): DE 69526264 A 19950830
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: German

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 782636 A1 19970709
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS
(English; French; German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A
19940908
Applic (No,Kind,Date): EP 95927945 A 19950830
Designated States: (National) DE; ES; FR; GB; IT; NL
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): EP 905284 A1 19990331
ALUMINIUM ELECTROWINNING CELL WITH DRAINED CATHODE (English; French;
German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): EP 95927945 A3 19950830; US 302178 A
19940908
Applic (No,Kind,Date): EP 98117608 A 19950830
Designated States: (National) DE; ES; FR; GB; IT; NL
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): EP 1146146 A2 20011017
HORIZONTAL DRAINED CATHODE SURFACE WITH RECESSED GROOVES FOR ALUMINIUM
ELECTROWINNING (English; French; German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): EP 98117608 A3 19950830; EP 95927945 A3
19950830; US 302178 A 19940908

Applic (No,Kind,Date): EP 2001116922 A 19950830
Designated States: (National) DE; ES; FR; GB; IT; NL
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): EP 1146146 A3 20020502
HORIZONTAL DRAINED CATHODE SURFACE WITH RECESSED GROOVES FOR ALUMINIUM
ELECTROWINNING (English; French; German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): EP 98117608 A3 19950830; EP 95927945 A3
19950830; US 302178 A 19940908
Applic (No,Kind,Date): EP 2001116922 A 19950830
Designated States: (National) DE; ES; FR; GB; IT; NL
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): EP 782636 B1 19990506
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS
(English; French; German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A
19940908
Applic (No,Kind,Date): EP 95927945 A 19950830
Designated States: (National) DE; ES; FR; GB; IT; NL
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): EP 905284 B1 20020403
ALUMINIUM ELECTROWINNING CELL WITH DRAINED CATHODE (English; French;
German)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): EP 95927945 A3 19950830; US 302178 A
19940908
Applic (No,Kind,Date): EP 98117608 A 19950830
Designated States: (National) DE; ES; FR; GB; IT; NL
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
NORWAY (NO)
Patent (No,Kind,Date): NO 9701060 A 19970307
ELEKTROLYTISK CELLE MED FORBEDREDE KARBONKATODEBLOKKER FOR UTVINNING AV
ALUMINIUM (Norwegian)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): NORA VITTORIO DE (BS)
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A
19940908
Applic (No,Kind,Date): NO 971060 A 19970307
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: Norwegian
Patent (No,Kind,Date): NO 9701060 A0 19970307
ELEKTROLYTISK CELLE MED FORBEDREDE KARBONKATODEBLOKKER FOR UTVINNING AV
ALUMINIUM (Norwegian)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): NORA VITTORIO DE (BS)
Priority (No,Kind,Date): WO 95IB721 W 19950830; US 302178 A
19940908
Applic (No,Kind,Date): NO 971060 A 19970307
IPC: * C25C

CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: Norwegian

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5683559 A 19971104
CELL FOR ALUMINIUM ELECTROWINNING EMPLOYING A CATHODE CELL BOTTOM MADE
OF CARBON BLOCKS WHICH HAVE PARALLEL CHANNELS THEREIN (English)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): US 571629 A 19951213; US 302178 B1
19940908
Applic (No,Kind,Date): US 571629 A 19951213
National Class: * 204243000R; 204294000; 264030000; 264039000;
264293000
IPC: * C25C-003/08; F27D-001/16; B28B-007/04; B29C-059/00
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): US 5888360 A 19990330
CELL FOR ALUMINIUM ELECTROWINNING (English)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): US 961924 A 19971031; US 571629 A3
19951213; US 302178 B1 19940908
Applic (No,Kind,Date): US 961924 A 19971031
Addnl Info: 5683559 Patented
National Class: * 204243000R; 204245000; 204294000
IPC: * C25C-003/08
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English
Patent (No,Kind,Date): US 6093304 A 20000725
CELL FOR ALUMINIUM ELECTROWINNING (English)
Patent Assignee: MOLTECH INVENT SA (LU)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): US 277930 A 19990329; US 961924 A1
19971031; US 571629 A3 19951213; US 302178 B1 19940908
Applic (No,Kind,Date): US 277930 A 19990329
Addnl Info: 5888360 Patented; 5683559 Patented
National Class: * 205381000; 204245000; 204294000
IPC: * C25C-003/08; C25C-003/00; C25B-011/12
CA Abstract No: * 125(04)043752P
Derwent WPI Acc No: * C 96-171642
Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9607773 A1 19960314
ALUMINIUM ELECTROWINNING CELL WITH IMPROVED CARBON CATHODE BLOCKS
(English)
Patent Assignee: MOLTECH INVENT SA (LU); NORA VITTORIO DE (BS)
Author (Inventor): DE NORA VITTORIO (BS)
Priority (No,Kind,Date): US 302178 A 19940908
Applic (No,Kind,Date): WO 9518721 A 19950830
Designated States: (National) AT; AU; BR; CA; CH; CN; CZ; DE; ES; GB;
HU; IS; JP; KP; KR; MX; NO; NZ; PL; RO; RU; SE; SI; SK; TJ; UA; US
(Regional) AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LU; MC; NL; PT
; SE
Filing Details: WO 100000 with international search report
IPC: * C25C-003/08
CA Abstract No: ; 125(04)043752P
Derwent WPI Acc No: ; C 96-171642
Language of Document: English

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